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ENGINEERING

HYUNDAI VELOSTER SHORT RAM 1.6T INTAKE

INSTALLATION INSTRUCTIONS

Installation:

Tools needed:

- 1/4” or 3/8” drive ratchet
- 12” extension (shorter ones work, but will be difficult to reach some bolts)
- 10mm socket (deep well)
- Small Philips head screwdriver
- Small flat head screwdriver
- Vice grips or needle nose pliers (not pictured)
- Assortment of allen keys (hex) – not pictured

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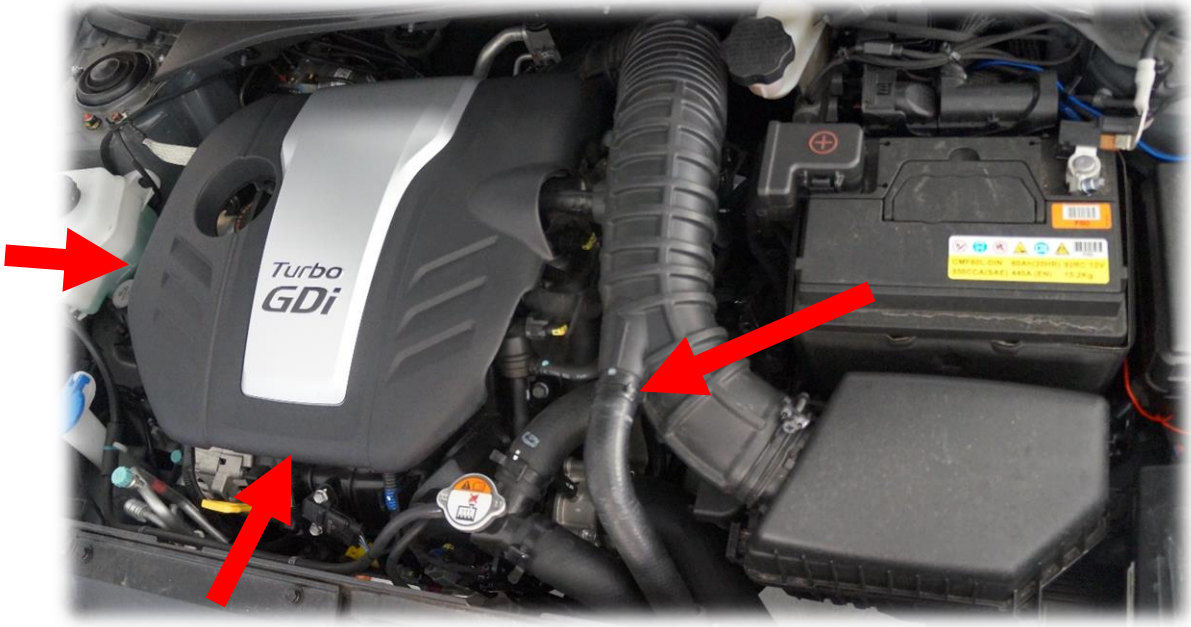
1. Disconnect the negative battery cable from the battery. This nut is 10mm.

2. Raise the front of the car by using either ramps or a jack with jack stands. Consult your vehicle instruction manual on safe jack locations.

3. Remove the stock engine cover by pulling up from the front closest to you, then the sides. After that, use the vice grips to remove the stock recirculation valve hose from the intake tube.



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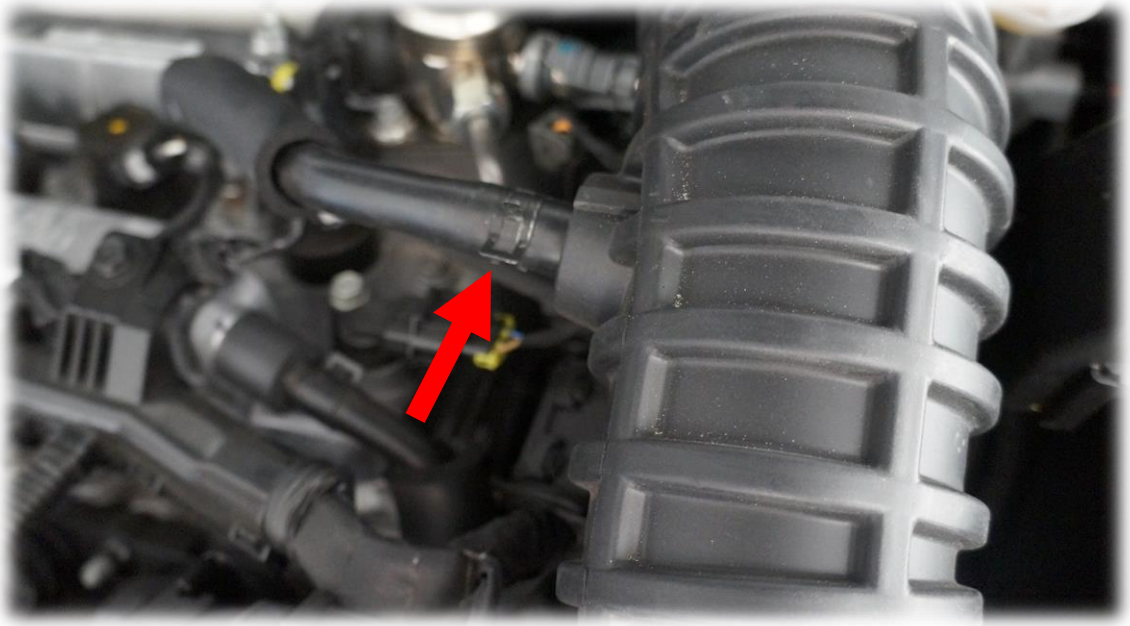
4. Remove the top half of the stock air box. There is a clip on the right and in the front. Then loosen the clamp from the hose attached to the box. Then you can pull the piece out.

5. Using the vice grips, slide the small clamp on the valve cover hose to the left, then remove the small hose from the intake tube.



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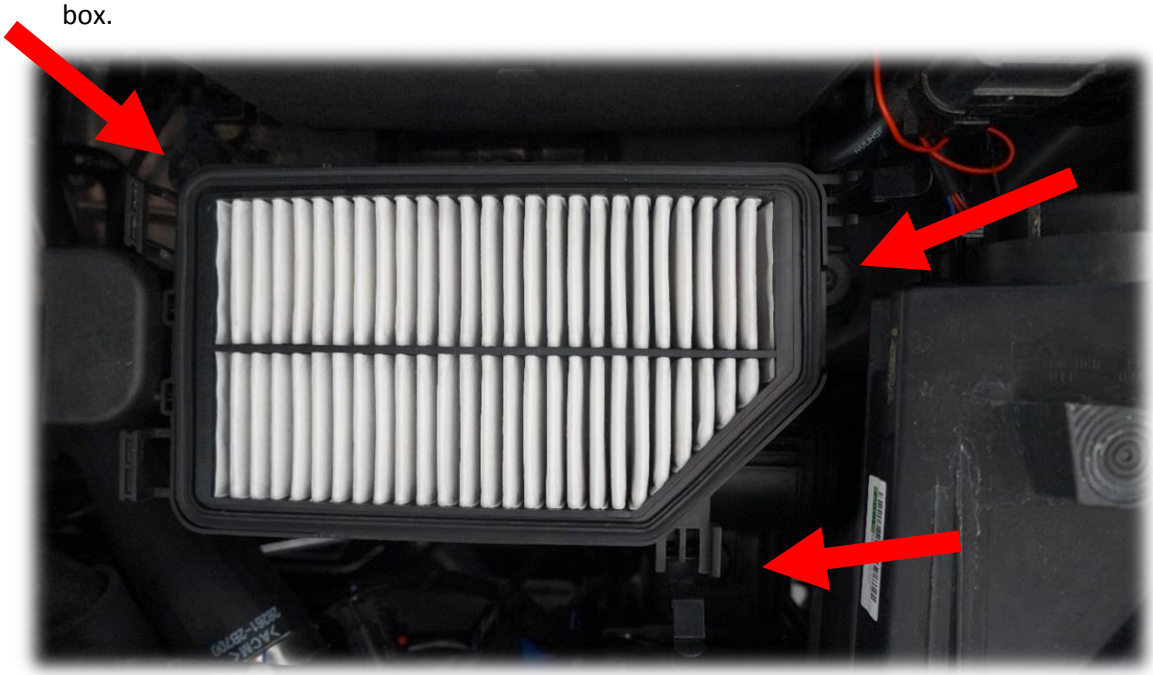
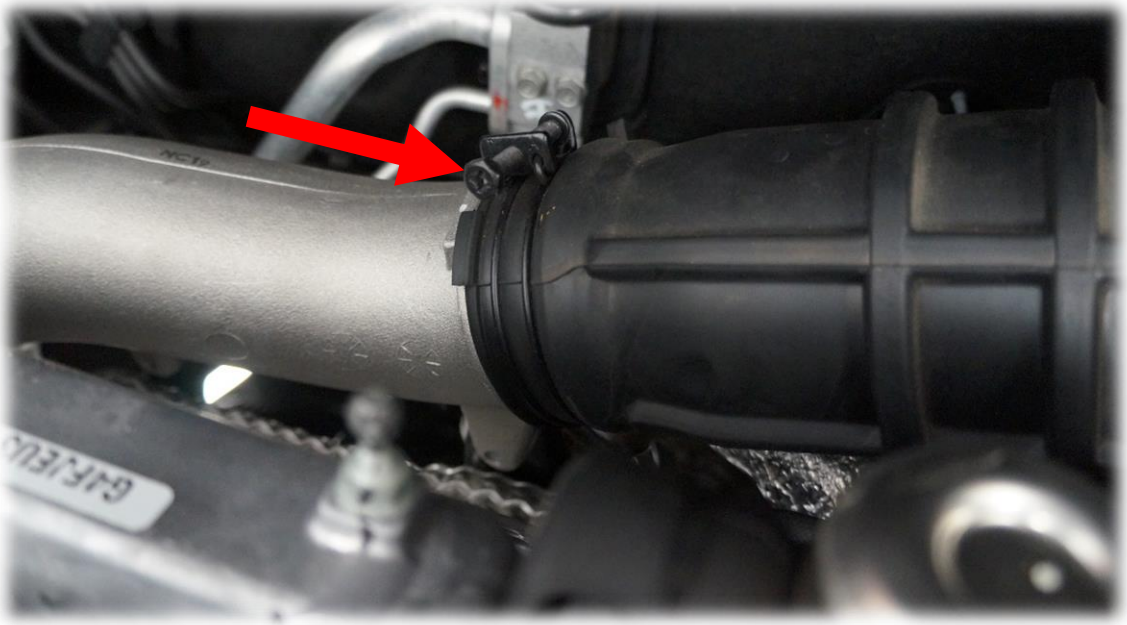
6. There are 3-10mm screws securing the bottom half of the air box. Two on the right, and one on the left. The long ratchet extension comes in handy here. Remove the bottom part of the air box.



7. Loosen the clamp holding the stock intake tube to the turbo inlet pipe. Now, you can remove the entire intake tube from the car.



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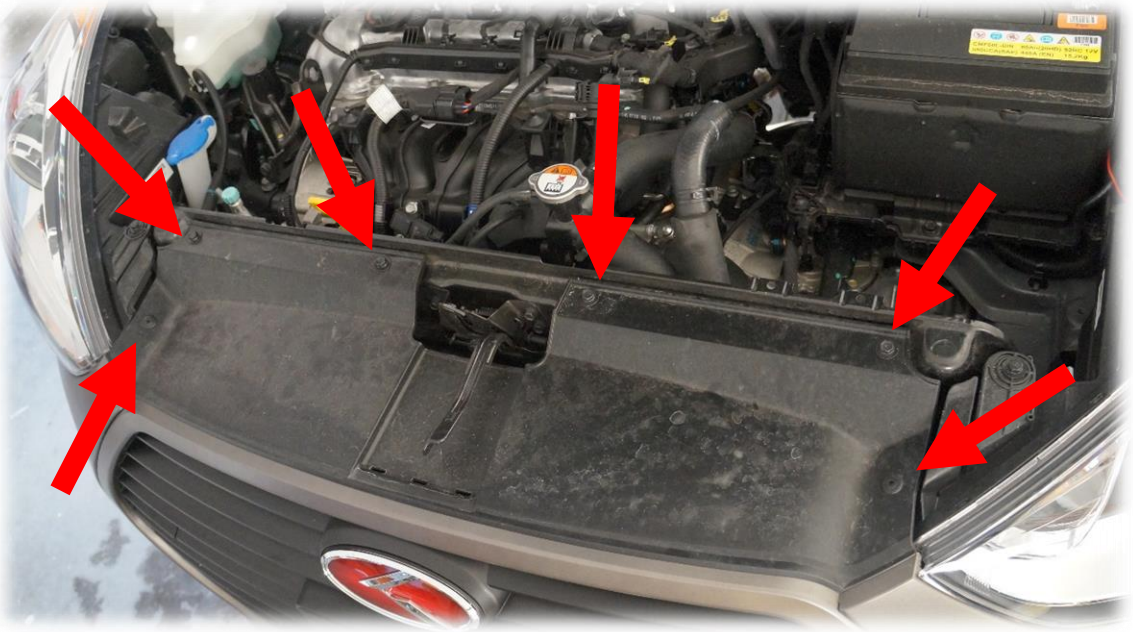
8. Next, the front bumper needs to be removed. Start by removing the 10mm screws holding the bumper at the fenders. There is one on each side of the car.

9. Use the screwdrivers and 10mm socket to remove the screws on the top of the bumper.



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10. Next, we need to remove the screws on the bottom of the bumper using the screw drivers. There are 2 on each side of the car that connect to the fender wells and the rest are on the bottom along the profile of the bumper.

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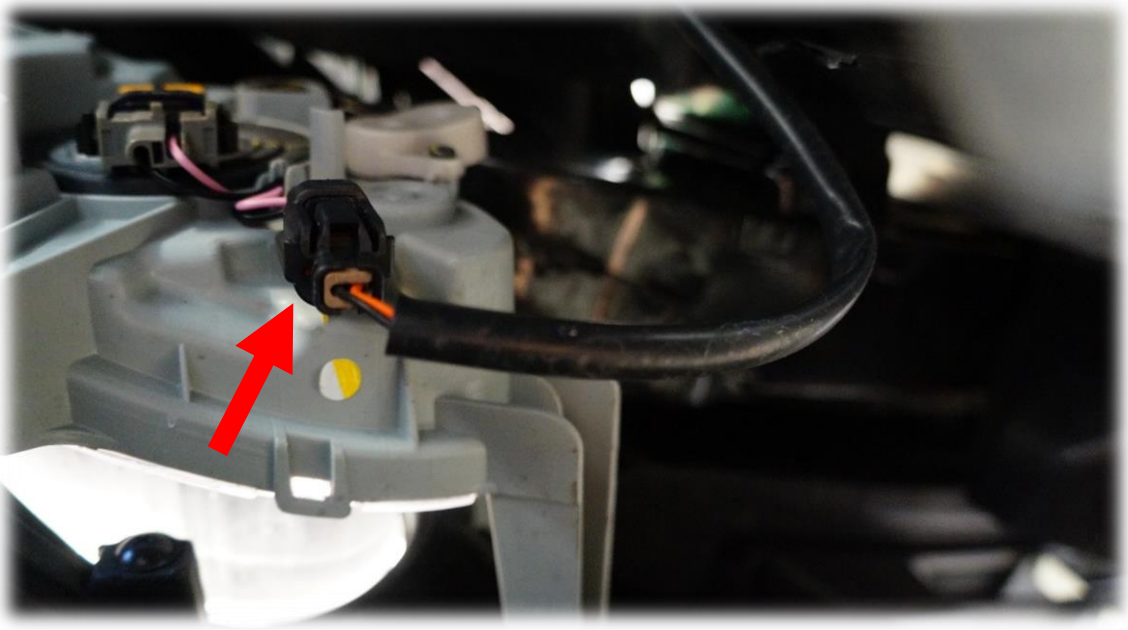
11. After the bumper screws are out, unplug the fog lights (if equipped) before you pull the bumper. The plugs are on the back of the light housing and facing the ground.



12. Last step before removing the bumper is to remove the driver side lower splash shield. There are 4-10mm bolts holding it to the car. Two are up a little higher behind the driver side fender well. Follow the plastic piece down towards the front bumper and you will find the other two.

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13. To remove the bumper, grab the fender and front grill as shown. Pull towards the front of the car and pull as straight as you can keeping the bumper parallel to the ground. Quick movements work best.

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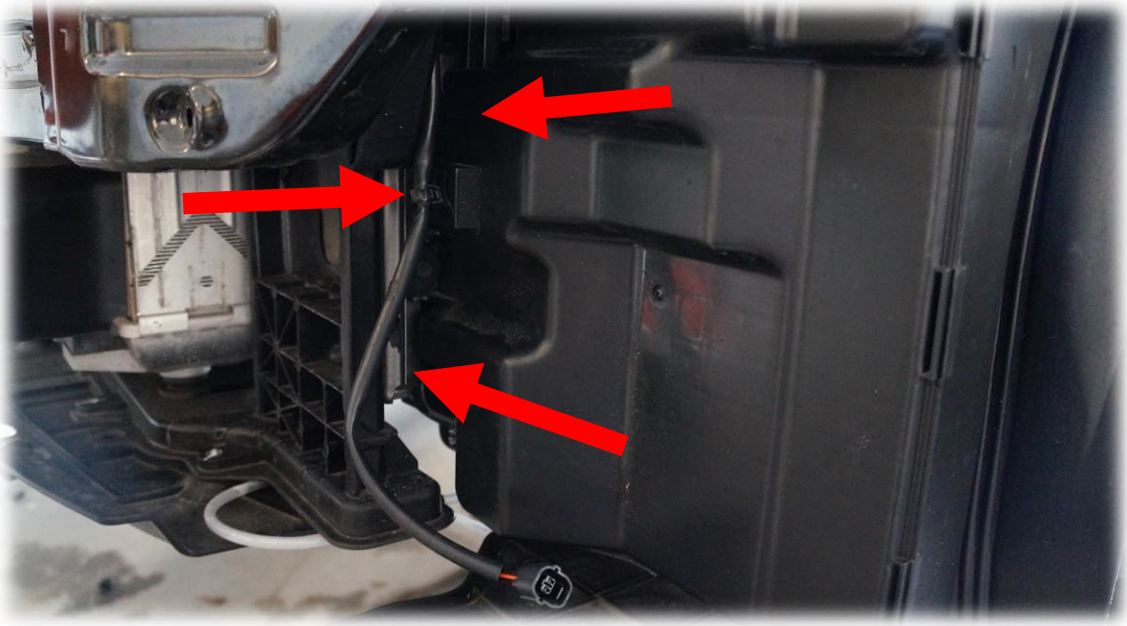
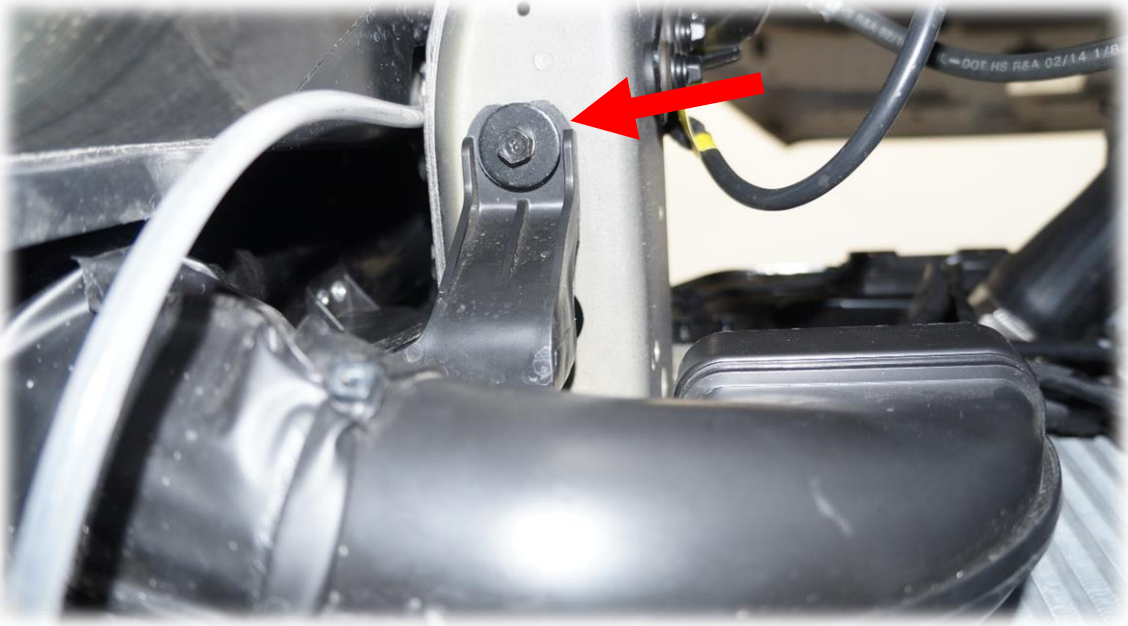
14. After the bumper is removed, the lower factory air box and intake snorkel must be removed. There are 3-10mm bolts. Two are on the side and there is one on the bottom of the chassis as shown. Use a small flathead screw driver to remove the clip holding the fog light wire.





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15. Use the small flat head to remove the plastic push lock fasteners from the top of the snorkel, then you can remove everything. Then remove the blow off valve hose from the valve.

16. Now it's time for your new intake! Start by installing the reducer coupler on the turbo inlet pipe and the T-Bolt clamps. You can refer to the shipping BOM (bill of material) drawing included with your kit for reference. FULLY TIGHTEN THE SMALLER CLAMP BUT LEAVE THE LARGER CLAMP LOOSE.

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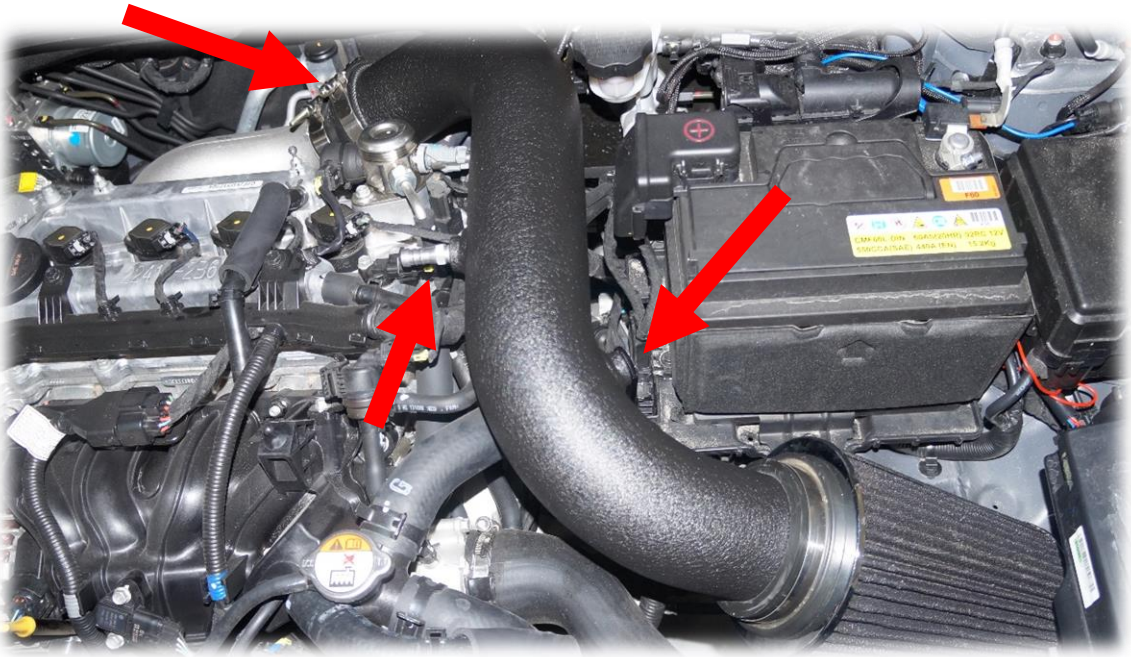
17. Next, install the intake pipe as shown. The bung for mounting should be closest to you. Then attach your air filter as shown. Leave the larger t-bolt clamp on the pipe a little loose for final adjustment after the filter is installed before we install the mounting bracket. Don't forget to attach your valve cover line!



18. Next we install the mounting bracket vibration mount. Screw one end into the battery tray where the old air box used to mount. It should be almost directly underneath your pipe.

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19. Next, install the mounting bracket and secure with the small M6 flange nut.

20. Lastly, we connect the bracket to the intake using the M6 button cap screw. After this, you can move the intake around slightly if you need to get it just right, then secure the t-bolt clamp at the coupler, then you're DONE!

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21. Install your bumper and splash shields, plug in your fog lights, hook the battery back up, and then put back the engine cover and ENJOY! Take it easy on the throttle for the first 5-10 miles, and then you can feel the new found power from the intake system.

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